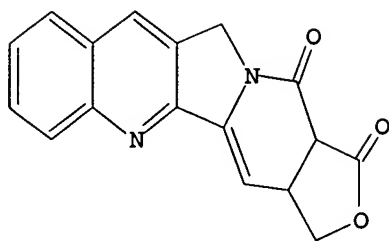


10/511,724



G1 H, OH, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, s-BuO, t-BuO

Structure attributes must be viewed using STN Express query preparation.

=>

10/511,724

=> d ibib abs hitstr 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:58207 CAPLUS

DOCUMENT NUMBER: 142:156197

TITLE: Preparation of 7-polyaminoalkyl(oxy)iminomethylcamptothecins bearing protective groups for use in pharmaceutical compositions as topoisomerase-I inhibitors

INVENTOR(S): Giannini, Giuseppe; Penco, Sergio; Tinti, Maria Ornella; Pisano, Claudio; Vesci, Loredana; Merlini, Lucio; Zunino, Franco

PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.P.A., Italy; Istituto Nazionale Per Lo Studio E La Cura Dei Tumori

SOURCE: PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005005431	A2	20050120	WO 2004-IT374	20040706
WO 2005005431	A3	20050224		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

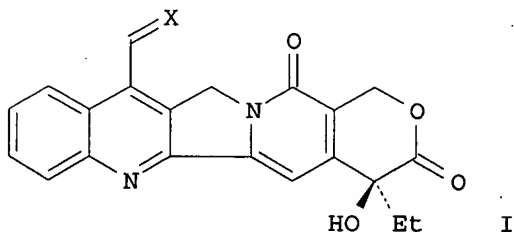
PRIORITY APPLN. INFO.:

IT 2003-RM344

A 20030714

OTHER SOURCE(S): MARPAT 142:156197

GI



AB Camptothecin derivs., such as I [X = NR; R = N-protected-aminoalkyl, N-protected-aminoalkoxy, N-protected-polyaminoalkyl, N-protected-polyaminoalkoxy], which are characterized by the presence of polyamine substituents on the imine/oxime residue, such amine groups being in turn protected by suitable protective groups, were prepared for therapeutic use as topoisomerase I inhibitors. These camptothecins are claimed for use as agents for the treatment of tumors and viral and parasite infections. Thus, camptothecin derivative ST 2544 I [X = :N(CH₂)₃N(CO₂CMe₃)(CH₂)₄N(CO₂CMe₃)(CH₂)₃NHCO₂CMe₃] was prepared via an imidation reaction with 81% yield of 7-formylcamptothecin I (X = :O) with the corresponding BOC-protected

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spermine derivative, $\text{H}_2\text{N}(\text{CH}_2)_3\text{N}(\text{CO}_2\text{CMe}_3)(\text{CH}_2)_4\text{N}(\text{CO}_2\text{CMe}_3)(\text{CH}_2)_3\text{NHCO}_2\text{CMe}_3$, using $\text{Yb}(\text{OSO}_2\text{CF}_3)_3$ in CH_2Cl_2 . The prepared camptothecin derivs. were assayed for cytotoxic effect on *Saccharomyces cerevisiae* cells and for antitumor activity against MKN-28 human gastric carcinoma.

IT 84017-99-2

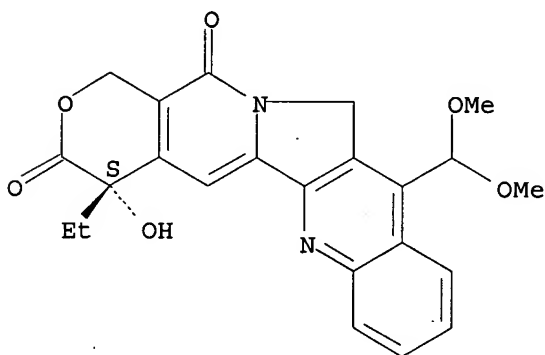
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 7-polyaminoalkyl(oxy)iminomethylcamptothecins bearing protective groups with topoisomerase-I inhibiting activity for use in pharmaceutical compns. as anticancer, antiviral and antiparasitic agents)

RN 84017-99-2 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 11-(dimethoxymethyl)-4-ethyl-4-hydroxy-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:972081 CAPLUS

DOCUMENT NUMBER: 140:27971

TITLE: Preparation of camptothecins with a modified lactone ring

INVENTOR(S): Marzi, Mauro; Marastoni, Elena; Penco, Sergio; Pisano, Claudio; Tinti, Maria Ornella; Vesci, Loredana; Zunino, Franco

PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Italy; Istituto Nazionale per lo Studio e la Cura dei Tumori

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003101995	A2	20031211	WO 2003-IT328	20030528
WO 2003101995	A3	20040219		
WO 2003101995	C1	20041223		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,			

FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2485201	AA	20031211	CA 2003-2485201	20030528
BR 2003011329	A	20050222	BR 2003-11329	20030528
EP 1511752	A2	20050309	EP 2003-730480	20030528

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003011333	A	20050315	BR 2003-11333	20030528
US 2005154003	A1	20050714	US 2003-511724	20030528
JP 2005531602	T2	20051020	JP 2004-509686	20030528

PRIORITY APPLN. INFO.: IT 2002-RM305 A 20020531
 WO 2003-IT328 W 20030528

OTHER SOURCE(S): CASREACT 140:27971; MARPAT 140:27971
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

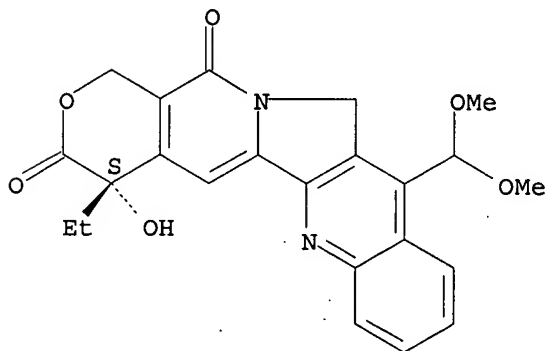
AB The modified camptothecins I and II (R1 = H, CR5:NOR4, R4 = H, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, heterocyclic group, heterocycloalkyl, aroyl, arylsulfonyl, glycosyl residue, etc.; R5 = H, alkyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl; R2, R3 = H, HO, alkoxy; n = 1,2; Z = H, alkyl) their racemic mixts., their individual enantiomers, their individual diastereoisomers, their mixts., and their pharmaceutically acceptable salts were prepared as topoisomerase I inhibitors. Thus, the intermediate III, prepared in 4 steps from camptothecin, was treated with tert-BuONH2.HCl sheltered from light at 80° for 16 h to give R,S-7-(1-tert-butoxyiminomethyl)homocamptothecin (ST2127) II (R = CH:NOCMe3, R1 = R2 = H) (IV). The IC50 of IV against non-microcytoma lung cancer cell line was 0.026 µM.

IT 84017-99-2P, ST 2337
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent).
 (preparation of camptothecins with a modified lactone ring as topoisomerase I inhibitors)

RN 84017-99-2 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 11-(dimethoxymethyl)-4-ethyl-4-hydroxy-, (4S)- (9CI) (CA INDEX NAME)

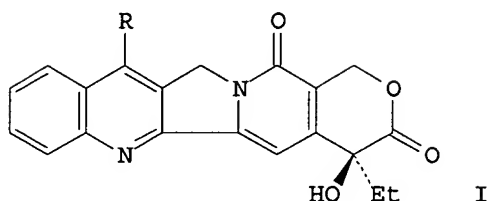
Absolute stereochemistry.



L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:106563 CAPLUS
 DOCUMENT NUMBER: 116:106563
 TITLE: Chemical modification of an antitumor alkaloid

10/511,724

camptothecin: synthesis and antitumor activity of
7-C-substituted camptothecins
AUTHOR(S): Sawada, Seigo; Nokata, Kenichiro; Furuta, Tomio;
Yokokura, Teruo; Miyasaki, Tadashi
CORPORATE SOURCE: Yakult Cent. Inst. Microbiol. Res., Kunitachi, 186,
Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1991), 39(10),
2574-80
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:106563
GI



AB A radical substitution reaction of 20(S)-camptothecin (I, R = H) with methanol furnished 7-hydroxymethylcamptothecin I (R = CH₂OH). Reaction of I (R = H) with primary alcs. higher than methanol gave 7-alkylcamptothecins I (R = hydroxyalkyl). For the preparation of 7-alkylcamptothecin I (R = alkyl), aldehydes were used as a radical source and several alkylated derivs. were synthesized. 7-Acyloxymethyl derivs., 7-carbaldehyde, iminomethyl derivs., acid, esters and amides were synthesized starting from I (R = CH₂OH). 7-Ethyl- and 7-propylcamptothecin, acyloxymethyl compds. and Et ester exhibited higher antitumor activity than I (R = H) against L1210 in mice.

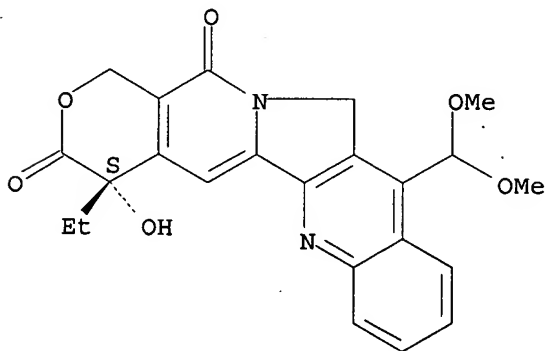
IT 84017-99-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antitumor activity of)

RN 84017-99-2 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,
11-(dimethoxymethyl)-4-ethyl-4-hydroxy-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

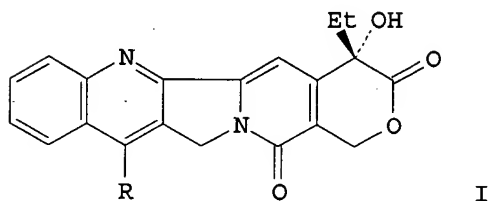


10/511,724

ACCESSION NUMBER: 1983:54274 CAPLUS
 DOCUMENT NUMBER: 98:54274
 TITLE: 7-Substituted camptothecin derivatives
 INVENTOR(S): Miyasaka, Tadashi; Mutai, Masahiko; Sawada, Seigo; Nokata, Kenichiro
 PATENT ASSIGNEE(S): Yakult Honsha Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 43 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 56692	A1	19820728	EP 1982-300104	19820108
EP 56692	B1	19850814		
R: BE, CH, DE, FR, GB, IT, SE				
JP 57116075	A2	19820719	JP 1981-1148	19810109
JP 62047191	B4	19871006		
JP 57116076	A2	19820719	JP 1981-1149	19810109
JP 62047192	B4	19871006		
JP 57185285	A2	19821115	JP 1981-67594	19810507
JP 62047189	B4	19871006		
US 4399276	A	19830816	US 1981-336494	19811231
CA 1177487	A1	19841106	CA 1982-393558	19820104
PRIORITY APPLN. INFO.:				
			JP 1981-1148	A 19810109
			JP 1981-1149	A 19810109
			JP 1981-67594	A 19810507

OTHER SOURCE(S): CASREACT 98:54274
 GI



AB 7-Substituted camptothecins I [R = CHO, CH₂OR₁, CH(OR₁)₂, [R₁ = C₁-6-alkyl or Ph(CH₂)₁₋₃], CH:NOH or CH:NNR₂R₃ (R₂, R₃ = H, C₁-6-alkyl, aryl, CONH₂, acyl, aminoalkyl or amidino, or R₂R₃N = heterocyclyl)], which have anti-tumor activity (no data), were prepared from I (R = CH₂OH) (II). Thus, 100 mg II dissolved in 50 mL pyridine and 50 mL DMF was treated with 200 mg PhCH₂COCl for 6 h at 90-100° to give 56.5% I (R = CH₂O₂CCH₂Ph) and 19.1% I (R = CHO).

IT 84017-99-2P

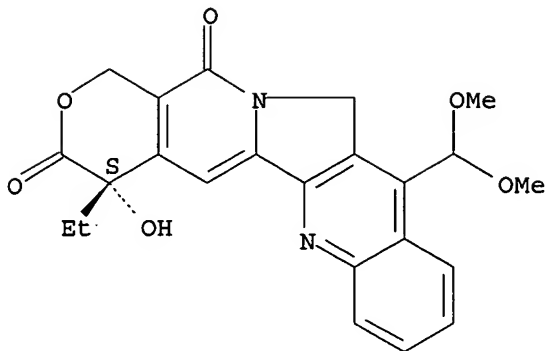
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 84017-99-2 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,
 11-(dimethoxymethyl)-4-ethyl-4-hydroxy-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/511,724



=> d his

(FILE 'HOME' ENTERED AT 09:31:56 ON 01 NOV 2005)

FILE 'REGISTRY' ENTERED AT 09:32:07 ON 01 NOV 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 1 S L1 FULL

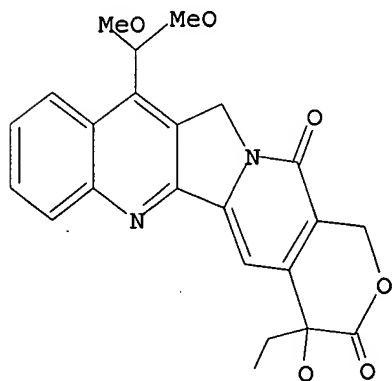
FILE 'CAPLUS' ENTERED AT 09:32:44 ON 01 NOV 2005

L4 4 S L3

=> d 11

L1 HAS NO ANSWERS

L1	STR
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G1 H, OH, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, s-BuO, t-BuO

Structure attributes must be viewed using STN Express query preparation.

 \Rightarrow

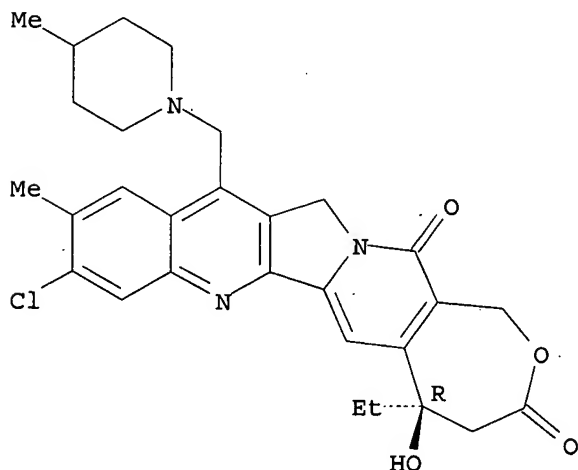
10/511,724

=> d ibib abs hitstr 1-65

L4 ANSWER 1 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:904323 CAPLUS
DOCUMENT NUMBER: 143:241966
TITLE: Combination of a cyclooxygenase 2 (COX-2) inhibitor
and a DNA topoisomerase 1 inhibitor for treatment of
neoplasia
INVENTOR(S): Masferrer, Jaime L.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 65 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005187172	A1	20050825	US 2004-22174	20041223
PRIORITY APPLN. INFO.:			US 2003-532203P	P 20031223
AB	The invention provides combinations of a Cox-2 inhibitor (e.g. celecoxib; preparation described) and a DNA topoisomerase inhibitor and methods of use thereof for preventing and/or treating neoplasia or or a neoplasia-related disorder in a subject.			
IT	220997-99-9, BN-80927 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (cyclooxygenase 2 inhibitor combination with DNA topoisomerase 1 inhibitor for treatment of neoplasia)			
RN	220997-99-9 CAPLUS			
CN	3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione, 9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methyl-12-[(4-methyl-1-piperidinyl)methyl]-, monohydrochloride, (5R)- (9CI) (CA INDEX NAME)			

Absolute stereochemistry. Rotation (+).



● HCl

L4 ANSWER 2 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:888946 CAPLUS

Inventor 10/511,724

L4 ANSWER 25 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:972081 CAPLUS
 DOCUMENT NUMBER: 140:27971
 TITLE: Preparation of camptothecins with a modified lactone ring
 INVENTOR(S): Marzi, Mauro; Marastoni, Elena; Penco, Sergio; Pisano, Claudio; Tinti, Maria Ornella; Vesci, Loredana; Zunino, Franco
 PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Italy; Istituto Nazionale per lo Studio e la Cura dei Tumori
 SOURCE: PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003101995	A2	20031211	WO 2003-IT328	20030528
WO 2003101995	A3	20040219		
WO 2003101995	C1	20041223		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2485201	AA	20031211	CA 2003-2485201	20030528
BR 2003011329	A	20050222	BR 2003-11329	20030528
EP 1511752	A2	20050309	EP 2003-730480	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003011333	A	20050315	BR 2003-11333	20030528
US 2005154003	A1	20050714	US 2003-511724	20030528
JP 2005531602	T2	20051020	JP 2004-509686	20030528
PRIORITY APPLN. INFO.:			IT 2002-RM305	A 20020531
			WO 2003-IT328	W 20030528
OTHER SOURCE(S):		CASREACT 140:27971; MARPAT 140:27971		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -. AVAILABLE VIA OFFLINE PRINT *

AB The modified camptothecins I and II (R1 = H, CR5:NOR4, R4 = H, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl, heterocyclic group, heterocycloalkyl, aroyl, arylsulfonyl, glycosyl residue, etc.; R5 = H, alkyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl, arylalkyl; R2, R3 = H, HO, alkoxy; n = 1,2; Z = H, alkyl) their racemic mixts., their individual enantiomers, their individual diastereoisomers, their mixts., and their pharmaceutically acceptable salts were prepared as topoisomerase I inhibitors. Thus, the intermediate III, prepared in 4 steps from camptothecin, was treated with tert-BuONH2.HCl sheltered from light at 80° for 16 h to give R,S-7-(1-tert-butoxyiminomethyl)homocamptothec in (ST2127). II (R = CH:NOCMe3, R1 = R2 = H) (IV). The IC50 of IV against non-microcytoma lung cancer cell line was 0.026 µM.

10/511,724

IT 631870-07-0P 631870-09-2P 631870-10-5P
631870-12-7P 631870-14-9P 631870-16-1P
631870-17-2P 631870-18-3P 631870-19-4P
631870-20-7P 631870-21-8P 631870-22-9P
631870-24-1P 631870-26-3P 631870-27-4P
631870-28-5P 631870-29-6P 631870-30-9P
631870-32-1P 631870-33-2P 631870-34-3P
631870-35-4P 631870-36-5P 631870-37-6P
631870-38-7P 631870-39-8P 631870-40-1P
631870-41-2P 631870-42-3P 631870-43-4P
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631870-47-8P 632356-55-9P, ST 2127 632356-56-0P

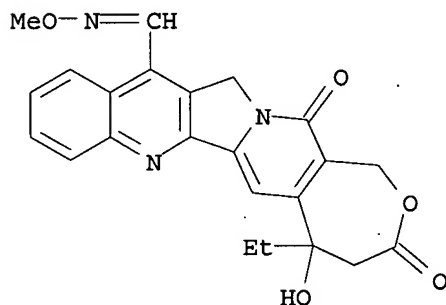
, ST 2143 632356-58-2P, (-)-ST 2127

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of camptothecins with a modified lactone ring as topoisomerase
I inhibitors)

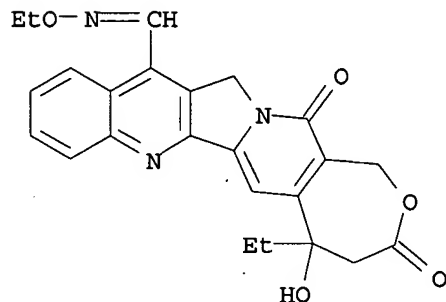
RN 631870-07-0 CAPLUS

CN 1H,3H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-12-carboxaldehyde,
5-ethyl-4,5,13,15-tetrahydro-5-hydroxy-3,15-dioxo-, 12-(O-methyloxime)
(9CI) (CA INDEX NAME)



RN 631870-09-2 CAPLUS

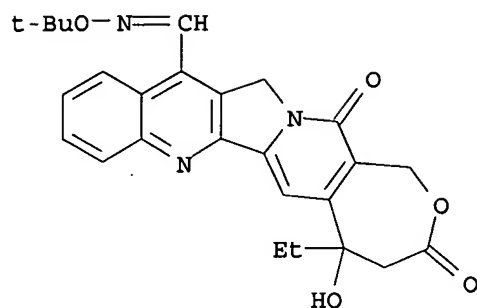
CN 1H,3H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-12-carboxaldehyde,
5-ethyl-4,5,13,15-tetrahydro-5-hydroxy-3,15-dioxo-, 12-(O-ethyloxime)
(9CI) (CA INDEX NAME)



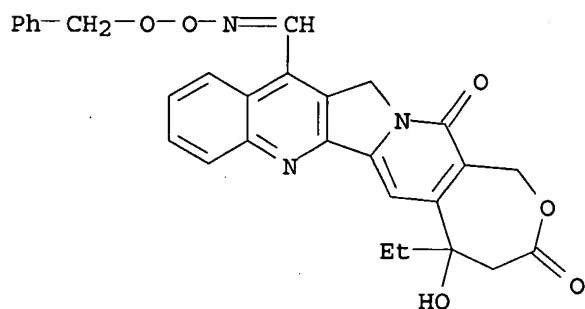
RN 631870-10-5 CAPLUS

CN 1H,3H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-12-carboxaldehyde,
5-ethyl-4,5,13,15-tetrahydro-5-hydroxy-3,15-dioxo-, 12-[O-(1-
methylethyl)oxime] (9CI) (CA INDEX NAME)

10/511,724

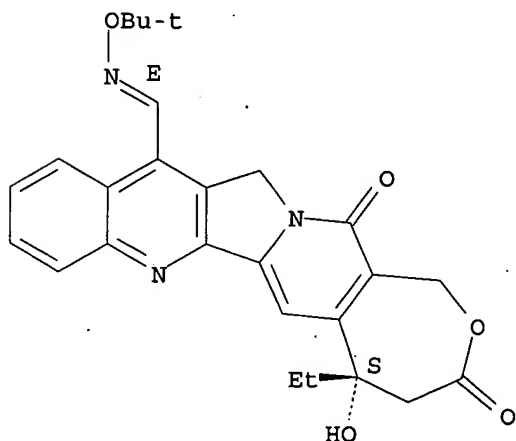


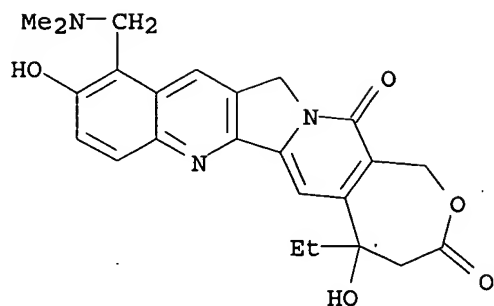
RN 632356-56-0 CAPLUS
CN 1H,3H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-12-carboxaldehyde,
5-ethyl-4,5,13,15-tetrahydro-5-hydroxy-3,15-dioxo-, 12-[O-(
phenylmethoxy)oxime] (9CI) (CA INDEX NAME)



RN 632356-58-2 CAPLUS
CN 1H,3H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-12-carboxaldehyde,
5-ethyl-4,5,13,15-tetrahydro-5-hydroxy-3,15-dioxo-, 12-[O-(1,1-
dimethylethyl)oxime], [C(E),5S]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.





L4 ANSWER 63 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:479535 CAPLUS
 DOCUMENT NUMBER: 129:109247
 TITLE: Preparation and formulation of camptothecin analogs as
 prodrugs for use as antitumor, antiviral, and
 parasiticidal agents
 INVENTOR(S): Bigg, Dennis; Laverigne, Olivier; Harnett, Jerry;
 Rolland, Alain; Liberatore, Anne-Marie; Lanco,
 Christophe; et al.
 PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications
 Scientifiques (S.C.R.A.S, Fr.
 SOURCE: PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828304	A1	19980702	WO 1997-FR2217	19971205
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2757515	A1	19980626	FR 1996-15775	19961220
FR 2757515	B1	20000505		
CA 2275345	AA	19980702	CA 1997-2275345	19971205
AU 9853264	A1	19980717	AU 1998-53264	19971205
AU 734512	B2	20010614		
EP 946566	A1	19991006	EP 1997-950235	19971205
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1241192	A	20000112	CN 1997-180816	19971205
CN 1090634	B	20020911		
BR 9713977	A	20000411	BR 1997-13977	19971205
NZ 335938	A	20000428	NZ 1997-335938	19971205
JP 2001506270	T2	20010515	JP 1998-528447	19971205
JP 3576174	B2	20041013		
RU 2190613	C2	20021010	RU 1999-115884	19971205
AT 253582	E	20031115	AT 1997-950235	19971205
PT 946566	T	20040331	PT 1997-950235	19971205
ES 2206760	T3	20040516	ES 1997-950235	19971205

10/511,724

PL 188109	B1	20041231	PL 1997-334092	19971205
ZA 9711270	A	19980623	ZA 1997-11270	19971215
TW 410224	B	20001101	TW 1997-86119342	19971219
US 6339091	B1	20020115	US 1999-332520	19990614
NO 9902997	A	19990818	NO 1999-2997	19990618
HK 1024694	A1	20030502	HK 2000-104033	20000704
US 6797715	B1	20040928	US 2000-612382	20000707
US 2002160994	A1	20021031	US 2002-61049	20020130
US 6762301	B2	20040713		
US 2003004150	A1	20030102	US 2002-71046	20020206
US 6815546	B2	20041109		
US 2005038064	A1	20050217	US 2004-930622	20040831

PRIORITY APPLN. INFO.:

FR 1996-15775	A	19961220
FR 1996-15945	A	19961224
GB 1995-12670	A	19950621
WO 1996-FR980	W	19960621
FR 1996-15774	A	19961220
FR 1997-10785	A	19970829
US 1997-973561	A2	19971202
WO 1997-FR2217	W	19971205
WO 1997-FR2218	W	19971205
WO 1998-FR1768	W	19980807
FR 1999-2398	A	19990226
US 1999-332520	A3	19990614
WO 2000-FR461	W	20000224
US 2000-612382	A3	20000707
US 2001-806952	W	20010405
US 2002-71046	A3	20020206

OTHER SOURCE(S): MARPAT 129:109247

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Camptothecin analogs I [R1 = alkyl, alkenyl, alkynyl, haloalkyl, etc.; R2 = R3 = R4 = R5 = H, CN, NO2, NHNH2, N3, halo, cyanoalkyl, nitroalkyl, etc.; R16 = H, acyloxy; R17 = alkoxy, amino, etc.; R18 = R19 = H, OH, halo, alkyl, alkoxy; R20 = H, halo; R21 = H, acyl, etc.; R16R17 = bond] were prepared and formulated as prodrugs for use as antitumor, antiviral, and parasitocidal agents. Thus, camptothecin analog II.HCl was prepared starting from 2-chloro-4-propionylpyridine, N-(tert-butyloxycarbonyl)glycine, and 3,4-difloroacetanilide via formation of intermediate alc. III and lactone IV, subsequent condensation of the alc. III with the amide moiety of IV, and intramol. cyclocondensation of the resulting chloride. The prepared compds. were tested for topoisomerase inhibitory activity.

IT 186668-40-6P 186668-44-0P 186668-65-5P
186668-68-8P 186668-69-9P 186668-70-2P
186668-72-4P 186668-73-5P 186668-74-6P
186668-75-7P 186668-77-9P 186668-79-1P
186668-90-6P 186668-94-0P 209909-06-8P
209909-08-0P 209909-09-1P

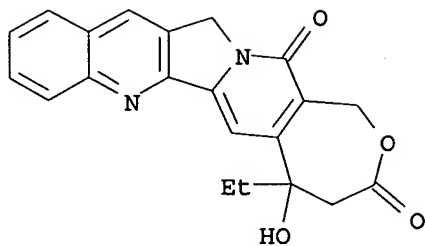
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(preparation and formulation of camptothecin analogs as prodrugs for use as antitumor, antiviral, and parasitocidal agents)

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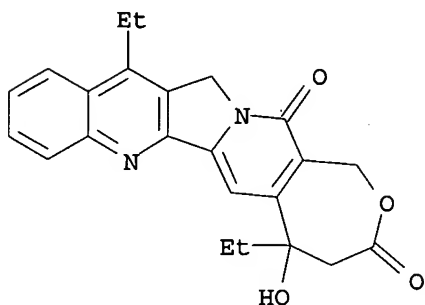
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5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)

10/511,724



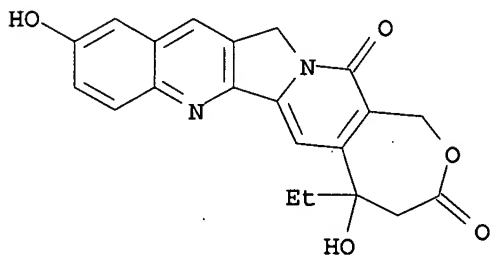
RN 186668-44-0 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5,12-diethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



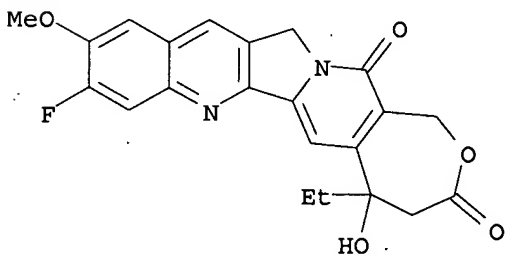
RN 186668-65-5 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5,10-dihydroxy- (9CI) (CA INDEX NAME)



RN 186668-68-8 CAPLUS

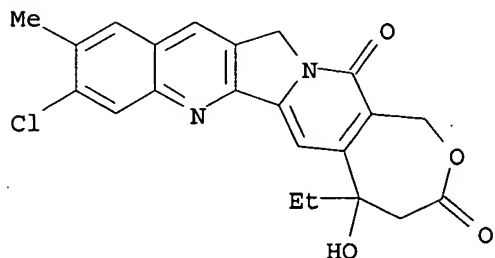
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA
INDEX NAME)



10/511,724

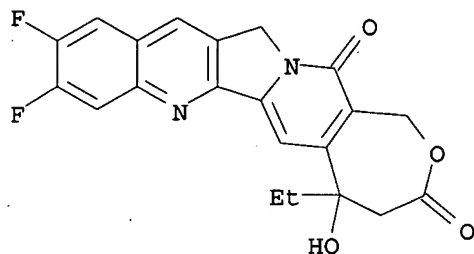
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NAME)



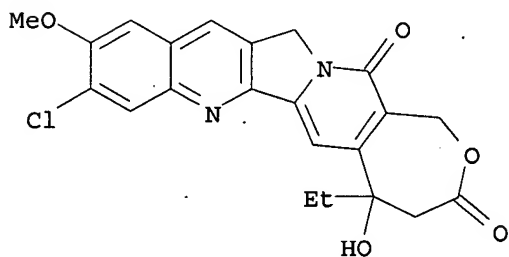
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NAME)



RN 186668-72-4 CAPLUS

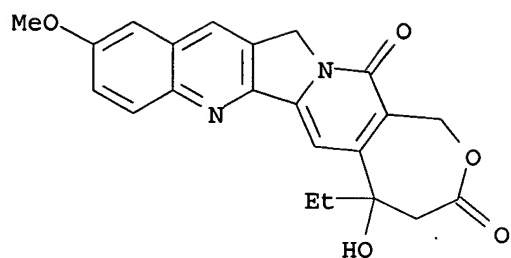
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA
INDEX NAME)



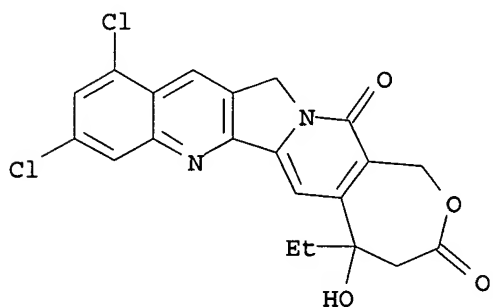
RN 186668-73-5 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA INDEX NAME)

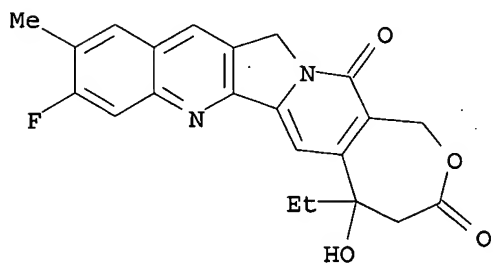
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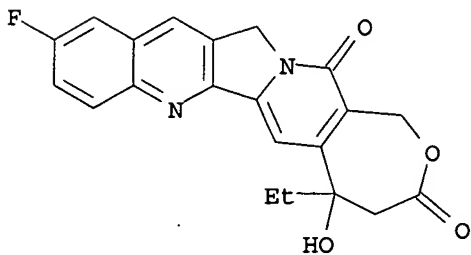
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CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9,11-dichloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX
NAME)



RN 186668-75-7 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methyl- (9CI) (CA INDEX
NAME)



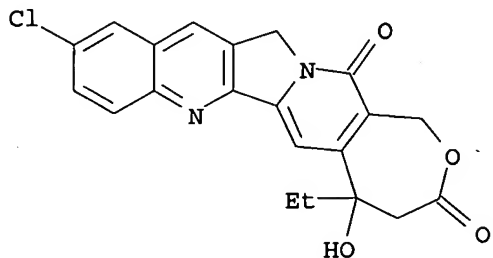
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5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



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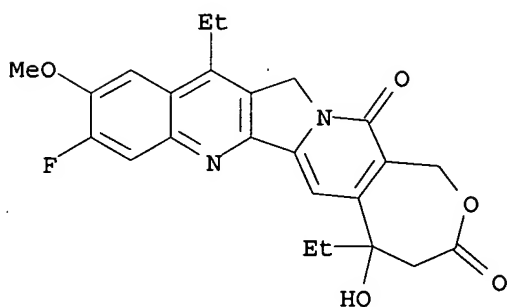
RN 186668-79-1 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
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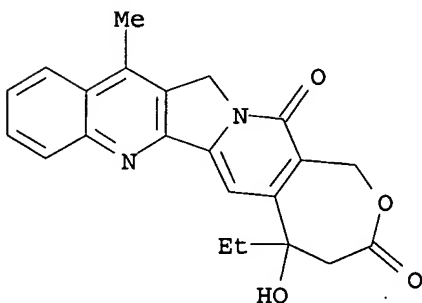
RN 186668-90-6 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5,12-diethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA INDEX NAME)



RN 186668-94-0 CAPLUS

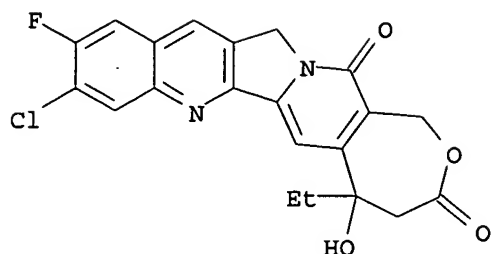
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-12-methyl- (9CI) (CA INDEX NAME)



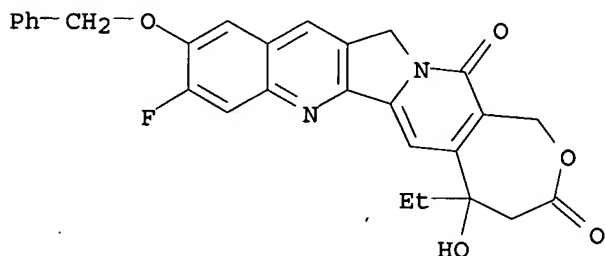
RN 209909-06-8 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)

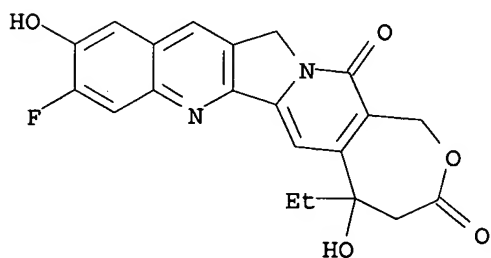
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RN 209909-08-0 CAPLUS
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5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-(phenylmethoxy)- (9CI)
(CA INDEX NAME)



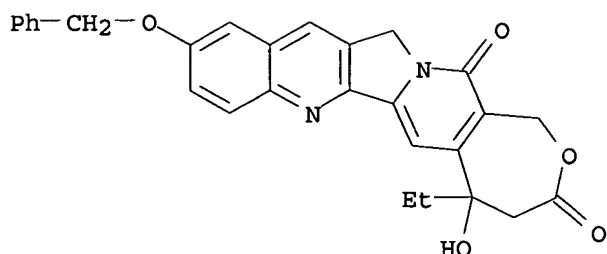
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5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5,10-dihydroxy- (9CI) (CA INDEX
NAME)



IT 186668-63-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(preparation and formulation of camptothecin analogs as prodrugs for use as antitumor, antiviral, and parasitocidal agents)

RN 186668-63-3 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-(phenylmethoxy)- (9CI) (CA INDEX
NAME)

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REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 64 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:633920 CAPLUS

DOCUMENT NUMBER: 127:331621

TITLE: BN 80245: an E-ring modified camptothecin with potent antiproliferative and topoisomerase I inhibitory activities

AUTHOR(S): Lavergne, Olivier; Lesueur-Ginot, Laurence; Rodas, Francesc Pla; Bigg, Dennis C. H.

CORPORATE SOURCE: Inst. Henri Beaufour, Les Ulis, F-91966, Fr.

SOURCE: Bioorganic & Medicinal Chemistry Letters (1997), 7(17), 2235-2238

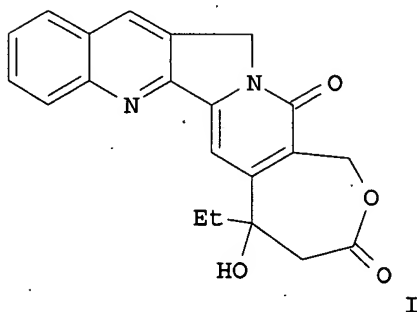
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



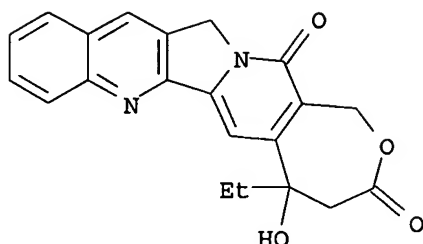
AB The crucial E-ring of camptothecin was modified to afford the homologous β -hydroxylactone derivative BN 80245 (I). This compound, which is more stable than camptothecin, remains a potent inhibitor of both cell growth and topoisomerase I.

IT 186668-40-6P, BN 80245

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of BN 80245, an E-ring modified camptothecin, with potent antiproliferative and topoisomerase I inhibitory activities)

RN 186668-40-6 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione, 5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 65 OF 65 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1997:140288 CAPLUS
 DOCUMENT NUMBER: 126:144433
 TITLE: Preparation of novel camptothecin analogs as antitumor agents
 INVENTOR(S): Bigg, Dennis; Laverigne, Olivier; Pla, Rodas Francesc; Pommier, Jacques; Ulibarri, Gerard
 PATENT ASSIGNEE(S): Societe De Conseils De Recherches Et D'application, Fr.; Bigg, Dennis; Laverigne, Olivier; Pla Rodas, Francesc; Pommier, Jacques; Ulibarri, Gerard
 SOURCE: PCT Int. Appl., 85 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700876	A1	19970109	WO 1996-FR980	19960621
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
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EP 835258	A1	19980415	EP 1996-924010	19960621
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CN 1192740	A	19980909	CN 1996-196127	19960621
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JP 3576171	B2	20041013		
NZ 312715	A	20000128	NZ 1996-312715	19960621
RU 2164515	C2	20010327	RU 1998-101135	19960621
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IE, FI, CY, TR, BG, CZ, EE, SK				
PT 835258	T	20030228	PT 1996-924010	19960621
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US 6313135	B1	20011106	US 1999-325913	19990604
US 6339091	B1	20020115	US 1999-332520	19990614
US 6797715	B1	20040928	US 2000-612382	20000707
US 2002160994	A1	20021031	US 2002-61049	20020130
US 6762301	B2	20040713		
US 2003004150	A1	20030102	US 2002-71046	20020206
US 6815546	B2	20041109		
CN 1432571	A	20030730	CN 2002-150454	20021113
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US 2004254163	A1	20041216	US 2004-862245	20040607
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			US 1996-610476	A 19960304
			EP 1996-924010	A3 19960621
			IL 1996-122635	A3 19960621
			JP 1997-503644	A3 19960621
			WO 1996-FR980	W 19960621
			FR 1996-15774	A 19961220
			FR 1996-15775	A 19961220
			FR 1996-15945	A 19961224
			FR 1997-10785	A 19970829
			US 1997-973561	A1 19971202
			WO 1997-FR2217	W 19971205
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			WO 1998-FR1768	W 19980807
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			US 1999-332520	A3 19990614
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			US 2000-612382	A3 20000707
			US 2001-806952	W 20010405
			US 2002-71046	A3 20020206
OTHER SOURCE(S):			MARPAT 126:144433	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A camptothecin analogs I and II (R1 = alkyl, alkenyl, alkynyl, alkoxy, alkylthio; R2, R3, R4 R5 = independently, H, halo, alkyl, cyano, azido, hydrazino, heterocyclic substituted alkyl or acyl; R16 = H, alkoxy; R17 = alkoxy, amino, heterocyclic amino; R18, R19 = independently, H, halo, OH, alkyl, alkoxy; R20 = H, halo) were prepared by a variety of synthetic paths and were tested for topoisomerase I inhibiting activity as antitumor agents. Thus, camptothecin analog III was prepared from 7-ethylcamptothecin and reduced topoisomerase I activity to 96.9% at 10 μ M and 20.4% at 500 μ M of control activity levels. Camptothecin analog III was also tested against various tumor cell lines such as L1210 and HCT15.

IT 186668-40-6P 186668-44-0P

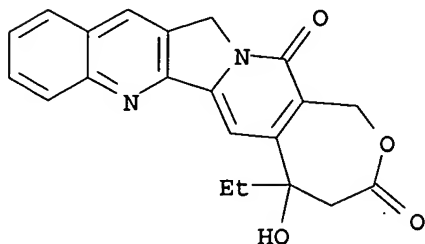
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

10/511,724

(preparation of camptothecin analogs as antitumor agents)

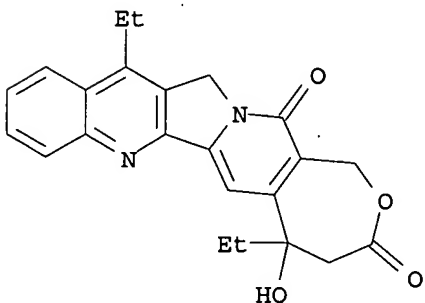
RN 186668-40-6 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



RN 186668-44-0 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5,12-diethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



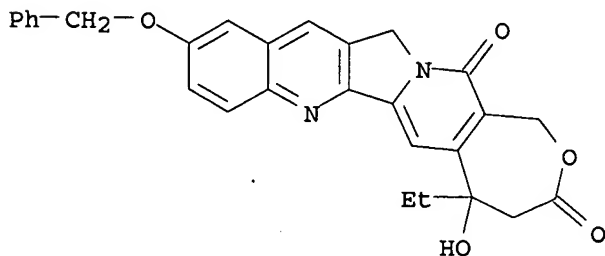
IT 186668-63-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of camptothecin analogs as antitumor agents)

RN 186668-63-3 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 186668-66-6P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);
USES (Uses)

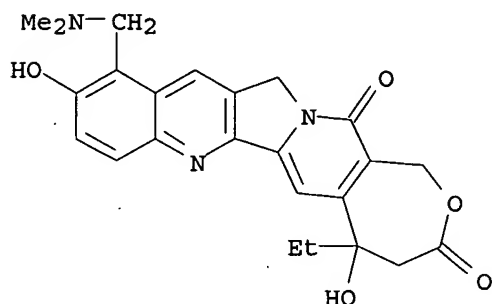
(preparation of camptothecin analogs as antitumor agents)

RN 186668-66-6 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,

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11-[(dimethylamino)methyl]-5-ethyl-1,4,5,13-tetrahydro-5,10-dihydroxy-
(9CI) (CA INDEX NAME)



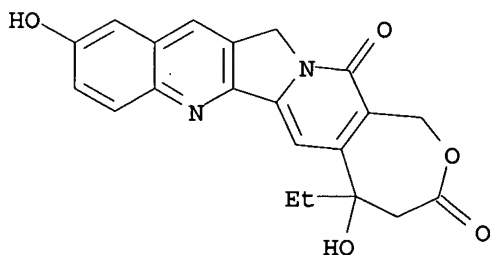
IT 186668-65-5P 186668-67-7P 186668-68-8P
186668-69-9P 186668-70-2P 186668-72-4P
186668-73-5P 186668-74-6P 186668-75-7P
186668-77-9P 186668-79-1P 186668-81-5P
186668-83-7P 186668-90-6P 186668-94-0P
186669-03-4P 186669-04-5P 186669-06-7P
186669-07-8P 186669-08-9P 186669-09-0P
186669-10-3P 186669-12-5P 186669-13-6P
186669-14-7P 186669-18-1P 186669-19-2P
186669-20-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of camptothecin analogs as antitumor agents)

RN 186668-65-5 CAPLUS

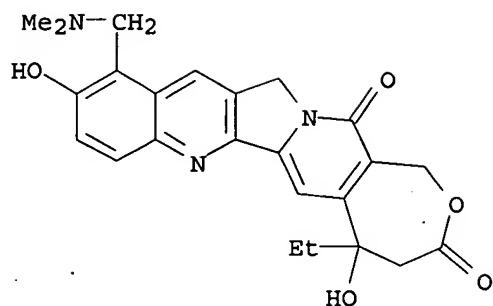
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5,10-dihydroxy- (9CI) (CA INDEX NAME)



RN 186668-67-7 CAPLUS

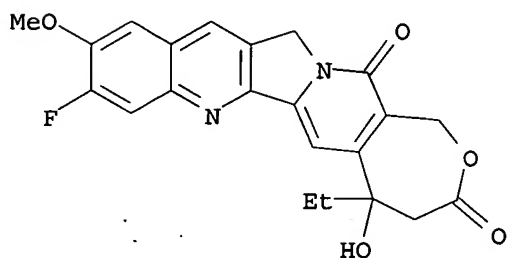
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
11-[(dimethylamino)methyl]-5-ethyl-1,4,5,13-tetrahydro-5,10-dihydroxy-,
monohydrochloride (9CI) (CA INDEX NAME)

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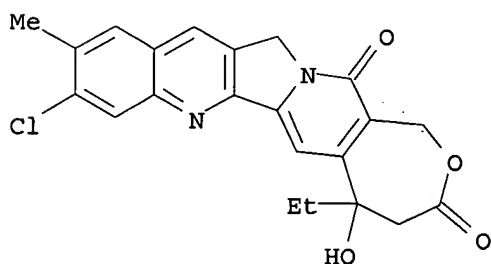


● HCl

RN 186668-68-8 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA
INDEX NAME)

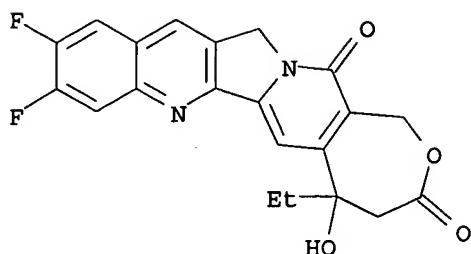


RN 186668-69-9 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methyl- (9CI) (CA INDEX
NAME)

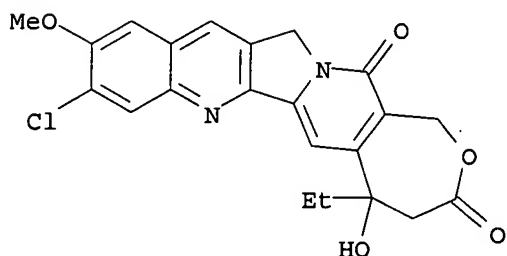


RN 186668-70-2 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9,10-difluoro-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX
NAME)

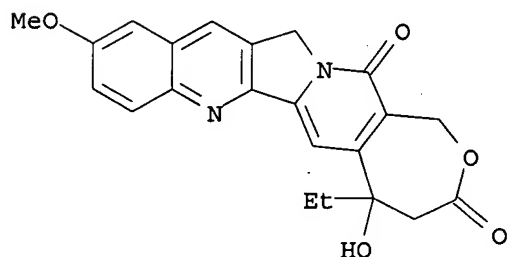
10/511,724



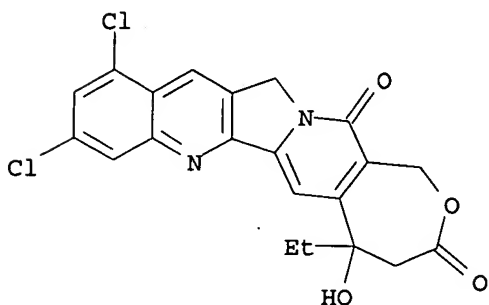
RN 186668-72-4 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA
INDEX NAME)



RN 186668-73-5 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA INDEX NAME)



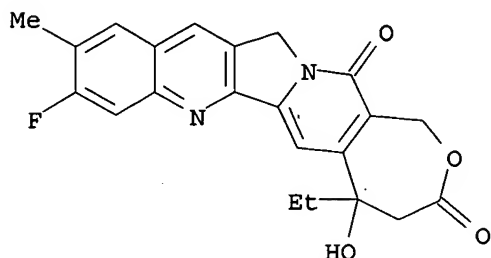
RN 186668-74-6 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9,11-dichloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX
NAME)



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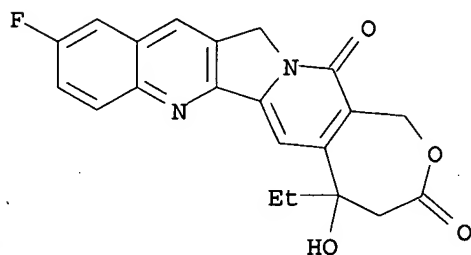
RN 186668-75-7 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methyl- (9CI) (CA INDEX
NAME)



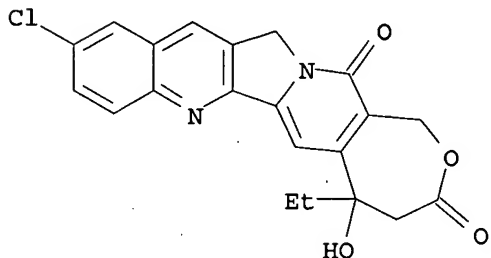
RN 186668-77-9 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



RN 186668-79-1 CAPLUS

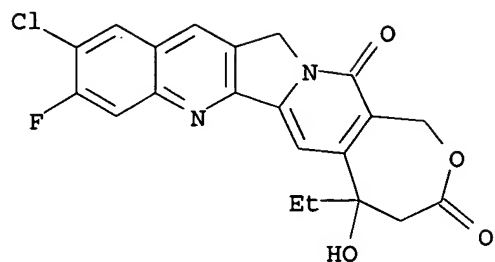
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
10-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX NAME)



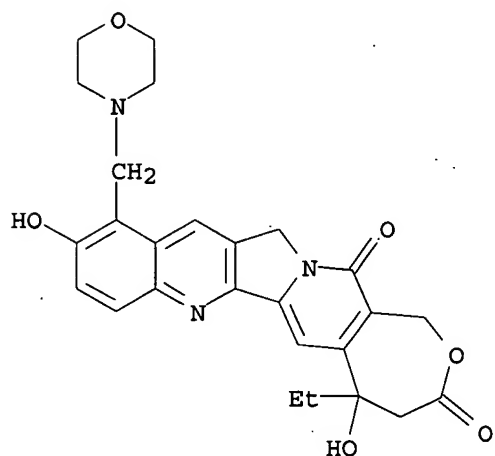
RN 186668-81-5 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
10-chloro-5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy- (9CI) (CA INDEX
NAME)

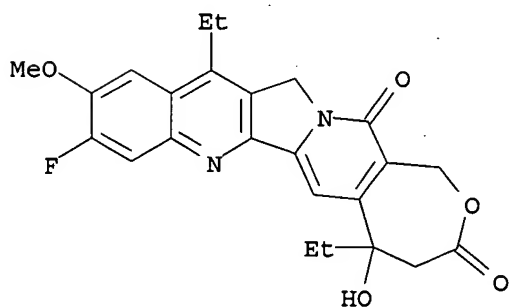
10/511,724



RN 186668-83-7 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5,10-dihydroxy-11-(4-morpholinylmethyl)- (9CI)
(CA INDEX NAME)

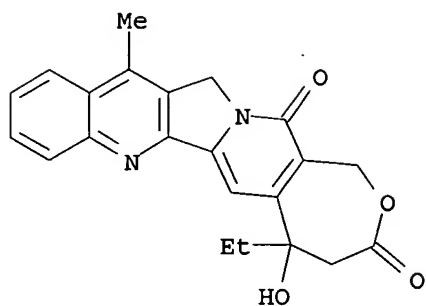


RN 186668-90-6 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5,12-diethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy- (9CI) (CA
INDEX NAME)



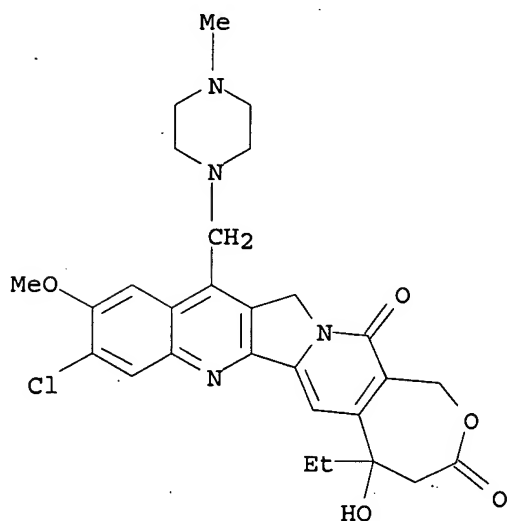
RN 186668-94-0 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-12-methyl- (9CI) (CA INDEX NAME)

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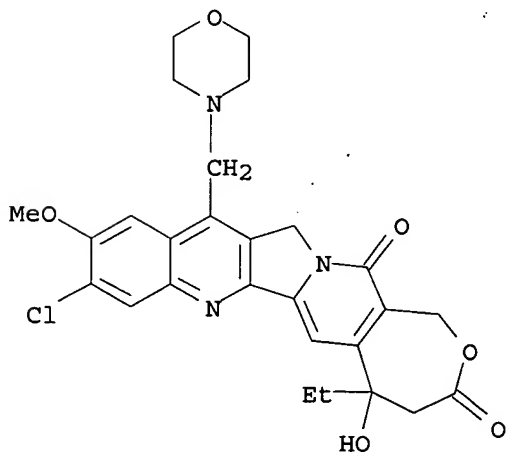
RN 186669-03-4 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy-12-[(4-methyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)



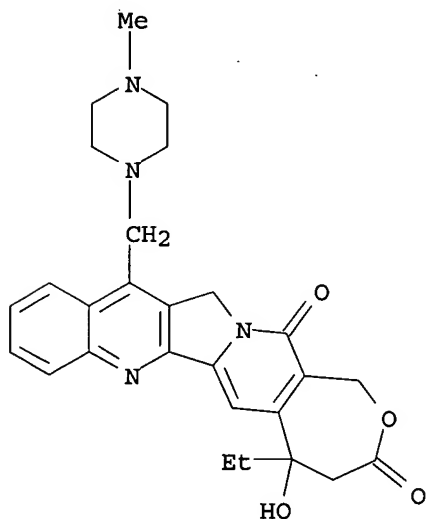
RN 186669-04-5 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-10-methoxy-12-(4-morpholinylmethyl)- (9CI) (CA INDEX NAME)

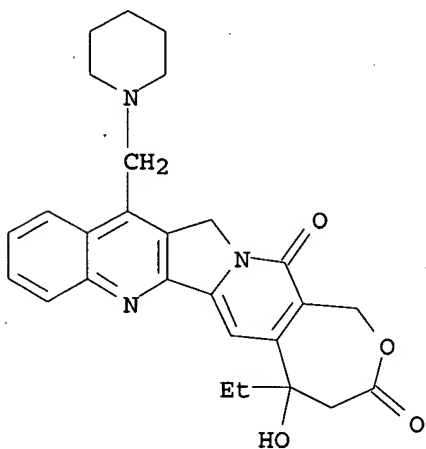


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RN 186669-06-7 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-12-[(4-methyl-1-piperazinyl)methyl]-
(9CI) (CA INDEX NAME)

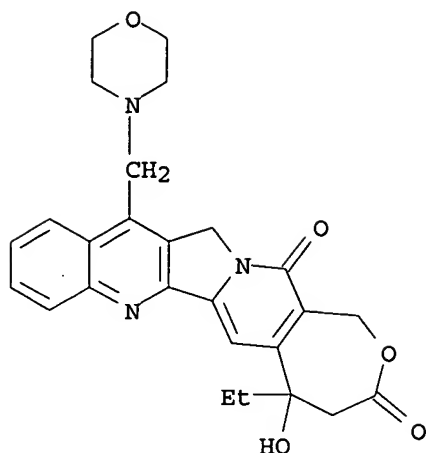


RN 186669-07-8 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-12-(1-piperidinylmethyl)- (9CI) (CA
INDEX NAME)



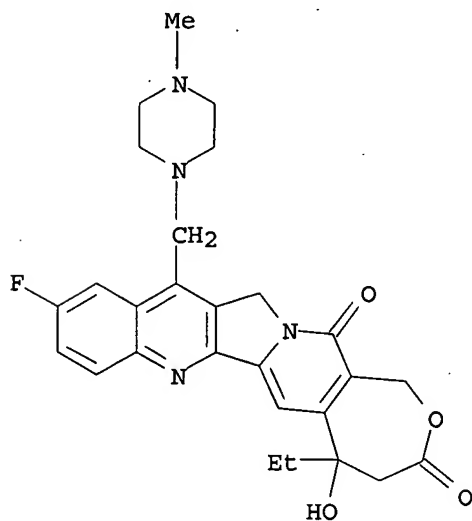
RN 186669-08-9 CAPLUS
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-12-(4-morpholinylmethyl)- (9CI) (CA
INDEX NAME)

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RN 186669-09-0 CAPLUS

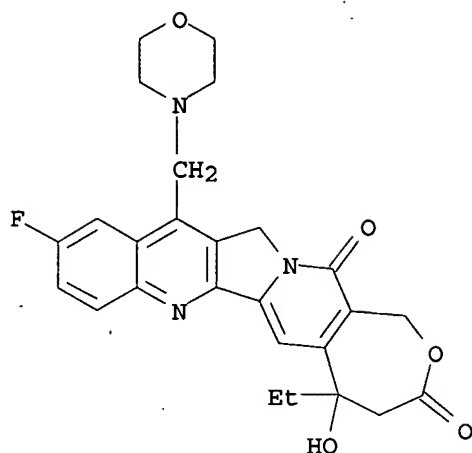
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-[(4-methyl-1-
piperazinyl)methyl]- (9CI) (CA INDEX NAME)



RN 186669-10-3 CAPLUS

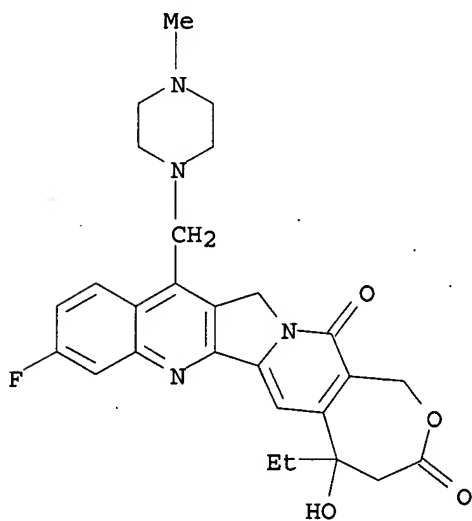
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-(4-morpholinylmethyl)-
(9CI) (CA INDEX NAME)

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RN 186669-12-5 CAPLUS

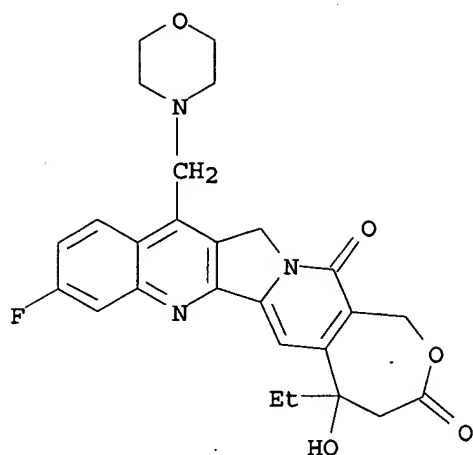
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-[(4-methyl-1-
piperazinyl)methyl]- (9CI) (CA INDEX NAME)



RN 186669-13-6 CAPLUS

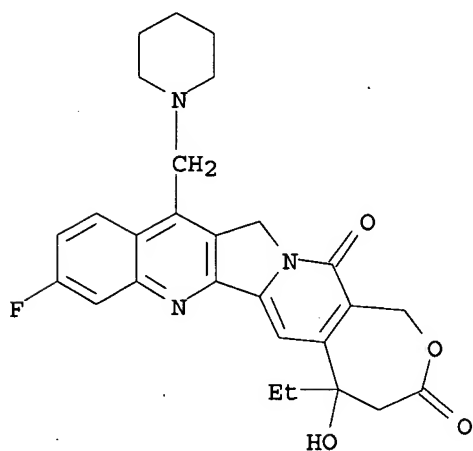
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-(4-morpholinylmethyl) -
(9CI) (CA INDEX NAME)

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RN 186669-14-7 CAPLUS

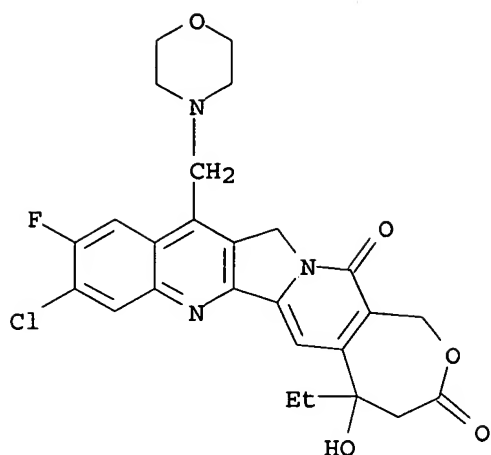
CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-9-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-(1-piperidinylmethyl)-
(9CI) (CA INDEX NAME)



RN 186669-18-1 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
9-chloro-5-ethyl-10-fluoro-1,4,5,13-tetrahydro-5-hydroxy-12-(4-
morpholinylmethyl)- (9CI) (CA INDEX NAME)

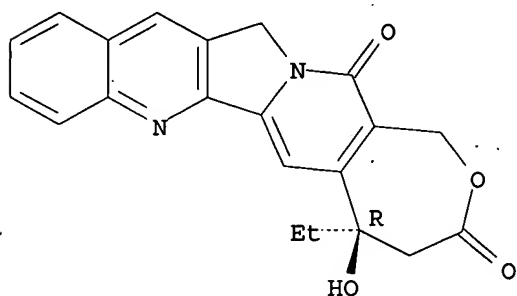
10/511,724



RN 186669-19-2 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-, (5R)- (9CI) (CA INDEX NAME)

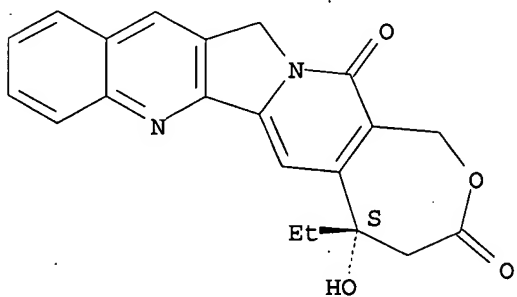
Absolute stereochemistry. Rotation (+).



RN 186669-20-5 CAPLUS

CN 3H,15H-Oxepino[3',4':6,7]indolizino[1,2-b]quinoline-3,15-dione,
5-ethyl-1,4,5,13-tetrahydro-5-hydroxy-, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 09:41:56 ON 01 NOV 2005)

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FILE 'REGISTRY' ENTERED AT 09:42:01 ON 01 NOV 2005

L1 STRUCTURE UPLOADED

L2 15 S L1

L3 391 S L1 FULL

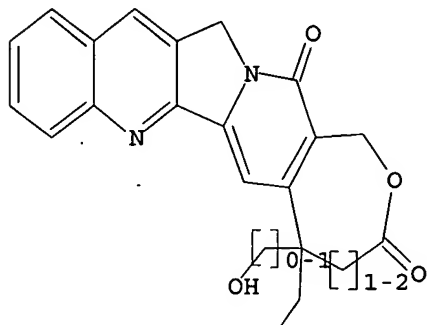
FILE 'CAPLUS' ENTERED AT 09:43:11 ON 01 NOV 2005

L4 65 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 H, OH, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, s-BuO, t-BuO

Structure attributes must be viewed using STN Express query preparation.

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